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
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Dec 1999
...Various **multiuser detection** techniques...classes of
detectors. Additionally...Most of the **multiuser detection**
schemes assume...second form of **detectors**, known as...Partially
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detectors: the conventional...extremes. The **first detector**...
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Aug 1997
...and perform **multiuser detection** with knowledge...users. One
detector, the Two...**Multiuser detectors** overcome...survey of
multiuser detection can be found...consider two **multiuser
detectors** that do not...system. Our **first detector**...
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Mar 2002
...denoted optimal **multiuser detection** is equivalent...solution.
The **first** principle...4 2 **Multiuser Detection** Fundamentals...The
Optimum **Detector**...SDP1 based **detectors**...we study
multiuser detection, which has...
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☐ **4.** Research - Multiuser Joint Detection: Lei WEI
Dec 2003
...conventional **detection**. In our previous...the breadth **first**
reduced complexity **multiuser detector** can achieve...complexity
multiuser detection. Current...the breadth **first detector** is
asymptotically...the optimal **detector** when the...Synchronous
CDMA **Multiuser Detection**", Proceeding...for Breadth **First**
Search **Detection**...
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☐ **5.** Document1
Jun 2000
...**detectors**. The **first** generation...space-time CDMA **detectors**
use array...either rake **detection** [3] or with **multiuser**
detection...space-time **detectors** which combine...processing,
rake **detection**, and a **multiuser detection**...Figure 5. **Detector**
Performances...Verdú, **Multiuser Detection**, Cambridge...
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☐ **6.** http://ieeexplore.ieee.org/iel5.PDF
Nov 2003
...this article, **first** we present...ization, blind **detection** over flat
fading channels, **multiuser detection**...filter- ing for **multiuser**
detection in code division...symbols by **first** obtaining the...to
perform **detection**. SEPTEMBER...
[http://www.ece.msstate.edu/~picone/particle_filtering....]
similar results

☐ **7.** Beamforming, diversity, and interference rejection for multiuser
communication over fading channels with a receive antenna ...
Apr 2003
...of these **detectors** based on...arrays, blind **detection**,
direction...rejection, **multiuser detection**...introduce two
detection strategies...fading. We **first** develop a...maximum-
likelihood (GML) **detector** under the...and MMSE **detectors** with
identical...suggests that we **first** estimate...REJECTION FOR
MULTIUSER COMMUNICATION...TABLE I BLIND **DETECTION** ON
COHERENTLY...
[http://ece.colorado.edu/~varanasi/pmcccom2003-01.pdf]
similar results

☐ **8.** MAXIMUM LIKELIHOOD DETECTION AND ESTIMATION
Aug 1997
...present two **detectors** which allow **multiuser detection**
without a...user in the **multiuser detection** scheme. In...develop
two new **detectors**, the Maximum...length T . The **first detector**
we consider...likelihood **detection** when the data...
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Low Bit-Rate Video Transmission over Fading.. - Khansari, Jalali, .. (1996)　(Correct)　(31 citations)
increasing the overhead for error protection. A **dual-rate** source coder is presented that adaptively
level of the ARQ transmission buffer. Error **detection** followed by retransmission results in less
the frame-error bursts of the proposed system over **CDMA** channels with average bit error rates of 10
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Comparison of Maximum Likelihood-based Detection for Two.. - Mitra (1999)　(Correct)　(11 citations)
for the two access methods, with a focus on **dual-rate** systems, is provided in Section IV. In that
MONTH 1999 Comparison of Maximum Likelihood-based **Detection** for Two Multi-rate Access Schemes for **CDMA**
eewww.eng.ohio-state.edu/~ubli/Papers/ublijan99.ps

Robust Low Bit-Rate Video Transmission Over.. - Khansari, Jalali.. (1994)　(Correct)　(8 citations)
increasing the overhead for error protection. A **dual-rate** source coder is presented that adaptively
level of the ARQ transmission buffer. Error **detection** followed by retransmission results in less
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A Decision Feedback Decorrelator for a Dual Rate.. - Saquib, Yates, Mandayam (1996)　(Correct)　(6 citations)
A Decision Feedback Decorrelator for a **Dual Rate** Synchronous DS/**CDMA** System Mohammad Saquib
multiuser receiver of Verd'u [1]multiuser **detection** for **CDMA** systems has received a great deal of
Decorrelator for a **Dual Rate** Synchronous DS/**CDMA** System Mohammad Saquib saquib@winlab.rutgers.edu
www.winlab.rutgers.edu/~ryates/papers/df.ps

Approaches To Layered Coding For Dual-Rate.. - Khansari.. (1994)　(Correct)　(4 citations)
Approaches To Layered Coding For **Dual-Rate** Wireless Video Transmission Masoud Khansari
encoder. Two bytes are allocated for CRC error **detection** and another byte is used for signalling and
patterned after the Code Division Multiple Access (**CDMA**) spread spectrum system proposed in [2]For our
www.inrs-telecom.uquebec.ca/users/viscom/english/publications/local/cpapers/Khan94icip.ps.gz

Further Results for Multi-Rate Decorrelators for Synchronous.. - Jiangxin Chen (1996)　(Correct)　(3 citations)
have been investigated for demodulating data in a **dual-rate** synchronous DS/**CDMA** system. The proposed
matrix oe 2 Gamma. We can perform joint **detection** of b by applying a decorrelator to this virtual
for Multi-Rate Decorrelators for Synchronous DS/**CDMA** Systems Jiangxin Chen &Urbashi Mitra
er4www.eng.ohio-state.edu/ips/Publications/Conference/postscript/CM96.ps.gz

Cyclic Wiener Filtering Based Multirate DS-CDMA Receivers - Ashutosh Sabharwal Urbashi (1999)　(Correct)
(2 citations)
was also independently made in [6] for a **dual rate** synchronous DS-**CDMA** system a non multipath
Abstract-**Detection** methods for multiple rate Direct Sequence Code
Cyclic Wiener Filtering Based Multirate DS-**CDMA** Receivers Ashutosh Sabharwal, Urbashi Mitra and
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Optimum Near-Far Resistance for Dual-Rate DS/CDMA Signals.. - Chen, Mitra (1999)　(Correct)　(2 citations)
Transactions Optimum Near-Far Resistance for **Dual-Rate** DS/**CDMA** Signals: Random Signature Sequence
will have to be developed for modulation, **detection**, and estimation of this heterogeneous
Optimum Near-Far Resistance for **Dual-Rate** DS/**CDMA** Signals: Random Signature Sequence Analysis
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MMSE Receivers for Dual-Rate DS/CDMA Signals: Random Signature.. - Chen, Mitra (1997)　(Correct)　(2 citations)
MMSE Receivers for **Dual-Rate** DS/**CDMA** Signals: Random Signature Sequence
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Large-System Performance Analysis of Blind and Group-Blind.. - Zhang, Wang (2002)   (Correct)   (1 citation)
The optimal near-far resistance for synchronous **dual-rate CDMA** systems is studied in [3]The performance
analysis of blind and group-blind multiuser **detection** methods. In these methods, the receivers are
the following canonical discrete-time synchronous **CDMA** K- user channel r[i] K X k=1 A k b k [i]s k
www.eas.asu.edu/~junshan/pub/bmud1.ps

On Multirate DS-CDMA Schemes with Interference Cancellation - Johansson, Svensson (1999)   (Correct)   (1 citation)
for single rate systems. In [22]however, a **dual rate** scheme based on multi-processing gains is
mixed modulation, multicodes, multiuser **detection**. 1 Introduction An important feature of future
On Multirate DS-**CDMA** Schemes with Interference Cancellation Ann-Louise
www.s2.chalmers.se/~anne/psfiles/wire.ps.gz

Reduced-Periodicity Subspace-Based Blind Adaptive.. - Volkan Rodoplu And   (Correct)
proofs of some key results obtained for **dual-rate** multiuser detectors. I. Introduction The
that the LRD always outperforms the HRD in the **detection** of the bits of high-data-rate user. A
Decorrelating and MMSE Detectors for Multirate **CDMA** Volkan Rodoplu and Teresa H. Meng Department of
www.stanford.edu/~vrodoplu/research/Rodoplu-Meng_MR.ps

A Decorrelating Decision-Feedback Detector for Dual Rate.. - Jiangxin Chen   (Correct)
A Decorrelating Decision-Feedback Detector for **Dual Rate** Synchronous DS/**CDMA** Communications Jiangxin
have been significant advances in the research of **detection** algorithms for single rate DS/**CDMA** signals that
Detector for **Dual Rate** Synchronous DS/**CDMA** Communications Jiangxin Chen Urbashi Mitra
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Design and Analysis of Receiver Filters for Multiple.. - Radha Srinivasan   (Correct)
schemes will be calculated for an asynchronous **dual-rate** scenario. The proposed receiver structure is
rate separation followed by single-rate **detection** schemes. Such a methodology enables a tradeoff
of Receiver Filters for Multiple Chip-Rate DS-**CDMA** Systems Radha Srinivasan Urbashi Mitra &
eewww.eng.ohio-state.edu/~ubli/Papers/radha.ps

Observations on Jointly Optimal Detection for Multi-rate.. - Urbashi Mitra (1996)   (Correct)
2 Preliminaries We shall present results for a **dual-rate** system. It is noted that the results presented
Observations on Jointly Optimal **Detection** for Multi-rate DS/**CDMA** Systems Urbashi Mitra
on Jointly Optimal **Detection** for Multi-rate DS/**CDMA** Systems Urbashi Mitra Department of Electrical
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Frequency-based Rate Separation for Dual-rate CDMA Signals - Srinivasan, Mitra, Moses (1998)   (Correct)
Frequency-based Rate Separation for **Dual-rate CDMA** Signals Radha Srinivasan, Urbashi Mitra &
rate-separation and then apply single-rate **detection** schemes are considered for a **dual-rate**
developing receivers for multi-rate synchronous DS/**CDMA** systems. The previously proposed receivers operate
eewww.eng.ohio-state.edu/~ubli/Papers/ciss98.ps

Iterative Multi-User Receivers for Antenna Array CDMA Systems .. - Wang, Blostein (2000)   (Correct)
multipath fading channels. Both single-rate and **dual-rate** systems are considered. We formulate a
investigate joint channel estimation and signal **detection** approaches for a multi-user **CDMA** system with
1 Iterative Multi-User Receivers for Antenna Array **CDMA** Systems over Asynchronous Multipath Fading
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